AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for forming a passivation layer on a memory device with an interconnect structure thereon, comprising the steps:

forming a first dielectric layer over the surface of the interconnect structure;

forming a silicon-oxy-nitride (SiOxNy) layer over the surface of the first dielectric layer; and

forming a second dielectric layer over the surface of the silicon-oxy-nitride layer; and

wherein the interconnect structure comprises a metal interconnect layer and a substantially planarized inter-layered dielectric layer covering the metal interconnect layer.

- 2. (Original) The method as claimed in claim 1, wherein the first dielectric layer is formed by depositing a HDP oxide over the interconnect structure with high density plasma chemical vapor deposition (HDPCVD).
- 3. (Original) The method as claimed in claim 2, wherein the thickness of the first dielectric layer is between 7000 to 10000Å.

- 4. (Original) The method as claimed in claim 1, wherein the second dielectric layer is formed by depositing phosphorous silica glass over the silicon-oxy-nitride layer with atmospheric pressure chemical vapor deposition (APCVD).
- 5. (Original) The method as claimed in claim 4, wherein the thickness of the second dielectric layer is between 8000 to 10000 Å.
- 6. (Original) The method as claimed in claim 1, wherein the silicon-oxy-nitride (SiOxNy) layer is formed by chemical vapor deposition.
- 7. (Original) The method as claimed in claim 1, wherein the thickness of the silicon-oxy-nitride (SiOxNy) layer is between 4000 to 7000Å.
- 8. (Original) The method as claimed in claim 1, wherein the memory device is a flash memory device.
- 9. (Original) The method as claimed in claim 1, wherein the memory device is a mask ROM.

- 10. (New) The method as claimed in claim 1, wherein the first dielectric layer is thicker than or equal to the silicon-oxynitride (SiOxNy) layer.
- 11. (New) The method as claimed in claim 1, wherein at least one of the first dielectric layer, the silicon-oxy-nitride (SiOxNy) layer, or the second dielectric layer comprises a substantially planarized surface.
- 12. (New) The method as claimed in claim 1, wherein the memory device comprises a charge loss in a range of approximately 0.060 to 0.096 and a standard deviation in a range of approximately 0.108 to 0.047.